

#3

OIPE

RAW SEQUENCE LISTING

DATE: 08/23/2001

PATENT APPLICATION: US/09/927,597

TIME: 15:20:01

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\08162001\I927597.raw

ENTERED

4 <110> APPLICANT: Malik, Fady
 5 Beraud, Christophe
 6 Freedman, Richard
 7 Craven, Andrew
 8 Sakowicz, Roman
 9 Hartman, James

11 <120> TITLE OF INVENTION: Human smooth muscle myosin heavy chain
 14 <130> FILE REFERENCE: CYTOP018

OK C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/927,597
 C--> 16 <141> CURRENT FILING DATE: 2001-08-10
 16 <160> NUMBER OF SEQ ID NOS: 17
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 22 <212> TYPE: DNA
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 28 gagaagcagg gcttcgaggc agccagcatt aaggaggaga agggggatga ggtggttgtg 180
 29 gagctggtgg agaattggca gaaggtcacg gttgggaaag atgacatcca gaagatgaac 240
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 41 aagatgagaa gtgacttgct tttggagggc ttcaacaact acaccttct ctccaatggc 960
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 43 gcaatcatgg gtttcagcga ggaggagcag ctatccatat tgaagggtgt atcatcggtc 1080
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134 20 25 30
135 Lys Arg Leu Val Trp Val Pro Ser Glu Lys Gln Gly Phe Glu Ala Ala
136 35 40 45
137 Ser Ile Lys Glu Glu Lys Gly Asp Glu Val Val Val Glu Leu Val Glu
138 50 55 60
139 Asn Gly Lys Lys Val Thr Val Gly Lys Asp Asp Ile Gln Lys Met Asn
140 65 70 75 80
141 Pro Pro Lys Phe Ser Lys Val Glu Asp Met Ala Glu Leu Thr Cys Leu
142 85 90 95
143 Asn Glu Ala Ser Val Leu His Asn Leu Arg Glu Arg Tyr Phe Ser Gly
144 100 105 110
145 Leu Ile Tyr Thr Tyr Ser Gly Leu Phe Cys Val Val Val Asn Pro Tyr
146 115 120 125
147 Lys His Leu Pro Ile Tyr Ser Glu Lys Ile Val Asp Met Tyr Lys Gly
148 130 135 140
149 Lys Lys Arg His Glu Met Pro Pro His Ile Tyr Ala Ile Ala Asp Thr
150 145 150 155 160
151 Ala Tyr Arg Ser Met Leu Gln Asp Arg Glu Asp Gln Ser Ile Leu Cys
152 165 170 175
153 Thr Gly Glu Ser Gly Ala Gly Lys Thr Glu Asn Thr Lys Lys Val Ile
154 180 185 190
155 Gln Tyr Leu Ala Val Val Ala Ser Ser His Lys Gly Lys Lys Asp Thr

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160 225          230          235          240
161 Val Lys Asn Asp Asn Ser Ser Arg Phe Gly Lys Phe Ile Arg Ile Asn
162          245          250          255
163 Phe Asp Val Thr Gly Tyr Ile Val Gly Ala Asn Ile Glu Thr Tyr Leu
164          260          265          270
165 Leu Glu Lys Ser Arg Ala Ile Arg Gln Ala Arg Asp Glu Arg Thr Phe
166          275          280          285
167 His Ile Phe Tyr Tyr Met Ile Ala Gly Ala Lys Glu Lys Met Arg Ser
168          290          295          300
169 Asp Leu Leu Leu Glu Gly Phe Asn Asn Tyr Thr Phe Leu Ser Asn Gly
170 305          310          315          320
171 Phe Val Pro Ile Pro Ala Ala Gln Asp Asp Glu Met Phe Gln Glu Thr
172          325          330          335
173 Val Glu Ala Met Ala Ile Met Gly Phe Ser Glu Glu Glu Gln Leu Ser
174          340          345          350
175 Ile Leu Lys Val Val Ser Ser Val Leu Gln Leu Gly Asn Ile Val Phe
176          355          360          365
177 Lys Lys Glu Arg Asn Thr Asp Gln Ala Ser Met Pro Asp Asn Thr Ala
178          370          375          380
179 Ala Gln Lys Val Cys His Leu Met Gly Ile Asn Val Thr Asp Phe Thr
180 385          390          395          400
181 Arg Ser Ile Leu Thr Pro Arg Ile Lys Val Gly Arg Asp Val Val Gln
182          405          410          415
183 Lys Ala Gln Thr Lys Glu Gln Ala Asp Phe Ala Val Glu Ala Leu Ala
184          420          425          430
185 Lys Ala Thr Tyr Glu Arg Leu Phe Arg Trp Ile Leu Thr Arg Val Asn
186          435          440          445
187 Lys Ala Leu Asp Lys Thr His Arg Gln Gly Ala Ser Phe Leu Gly Ile
188          450          455          460
189 Leu Asp Ile Ala Gly Phe Glu Ile Phe Glu Val Asn Ser Phe Glu Gln
190 465          470          475          480
191 Leu Cys Ile Asn Tyr Thr Asn Glu Lys Leu Gln Gln Leu Phe Asn His
192          485          490          495
193 Thr Met Phe Ile Leu Glu Gln Glu Glu Tyr Gln Arg Glu Gly Ile Glu
194          500          505          510
195 Trp Asn Phe Ile Asp Phe Gly Leu Asp Leu Gln Pro Cys Ile Glu Leu
196          515          520          525
197 Ile Glu Arg Pro Asn Asn Pro Pro Gly Val Leu Ala Leu Leu Asp Glu
198          530          535          540
199 Glu Cys Trp Phe Pro Lys Ala Thr Asp Lys Ser Phe Val Glu Lys Leu
200 545          550          555          560
201 Cys Thr Glu Gln Gly Ser His Pro Lys Phe Gln Lys Pro Lys Gln Leu
202          565          570          575
203 Lys Asp Lys Thr Glu Phe Ser Ile Ile His Tyr Ala Gly Lys Val Asp
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209 Leu Trp Lys Asp Val Asp Arg Ile Val Gly Leu Asp Gln Met Ala Lys
210 625          630          635          640
211 Met Thr Glu Ser Ser Leu Pro Ser Ala Ser Lys Thr Lys Lys Gly Met
212          645          650          655
213 Phe Arg Thr Val Gly Gln Leu Tyr Lys Glu Gln Leu Gly Lys Leu Met
214          660          665          670
215 Thr Thr Leu Arg Asn Thr Thr Pro Asn Phe Val Arg Cys Ile Ile Pro
216          675          680          685
217 Asn His Glu Lys Arg Ser Gly Lys Leu Asp Ala Phe Leu Val Leu Glu
218      690          695          700
219 Gln Leu Arg Cys Asn Gly Val Leu Glu Gly Ile Arg Ile Cys Arg Gln
220 705          710          715          720
221 Gly Phe Pro Asn Arg Ile Val Phe Gln Glu Phe Arg Gln Arg Tyr Glu
222          725          730          735
223 Ile Leu Ala Ala Asn Ala Ile Pro Lys Gly Phe Met Asp Gly Lys Gln
224          740          745          750
225 Ala Cys Ile Leu Met Ile Lys Ala Leu Glu Leu Asp Pro Asn Leu Tyr
226          755          760          765
227 Arg Ile Gly Gln Ser Lys Ile Phe Phe Arg Thr Gly Val Leu Ala His
228      770          775          780
229 Leu Glu Glu Glu Arg Asp Leu Lys Ile Thr Asp Val Ile Met Ala Phe
230 785          790          795          800
231 Gln Ala Met Cys Arg Gly Tyr Leu Ala Arg Lys Ala Phe Ala Lys Arg
232          805          810          815
233 Gln Gln Gln Leu Thr Ala Met Lys Val Ile Gln Arg Asn Cys Ala Ala
234          820          825          830
235 Tyr Leu Lys Leu Arg Asn Trp Gln Trp Trp Arg Leu Phe Thr Lys Val
236          835          840          845
237 Lys Pro Leu Leu Gln Val Thr Arg Gln Glu Glu Glu Met Gln Ala Lys
238          850          855          860
239 Glu Asp Glu Leu Gln Lys Thr Lys Glu Arg Gln Gln Lys Ala Glu Asn
240 865          870          875          880
241 Glu Leu Lys Glu Leu Glu Gln Lys His Ser Gln Leu Thr Glu Glu Lys
242          885          890          895
243 Asn Leu Leu Gln Glu Gln Leu Gln Ala Glu Thr Glu Leu Tyr Ala Glu
244          900          905          910
245 Ala Glu Glu Met Arg Val Arg Leu Ala Ala Lys Lys Gln Glu Leu Glu
246          915          920          925
247 Glu Ile Leu His Glu Met Glu Ala Arg Leu Glu Glu Glu Glu Asp Arg
248          930          935          940
249 Gly Gln Gln Leu Gln Ala Glu Arg Lys Lys Met Ala Gln Gln Met Leu
250 945          950          955          960
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252          965          970          975
253 Gln Leu Glu Lys Val Thr Ala Glu Ala Lys Ile Lys Lys Leu Glu Asp

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VERIFICATION SUMMARY

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DATE: 08/23/2001

TIME: 15:20:02

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\08162001\I927597.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date